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west virginia department of environmental protection

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Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345  
Phone: 304 926 0475 • Fax: 304 926 0479

Jim Justice, Governor  
Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

May 23, 2017

**By email to [gavinm@eqt.com](mailto:gavinm@eqt.com)**

Mike Gavin  
EQT Production Company, LLC  
625 Liberty Avenue, Suite 1700  
Pittsburgh, PA 15222

Re: Registration Issuance  
EQT Production Company, LLC  
BIG 57-176 Meter Site  
Registration No. G35-D123  
Plant ID No. 103-00052

Dear Mr. Gavin:

Your application for a registration as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed registration G35-D123 is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the registration which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

The source is not subject to 45CSR30.

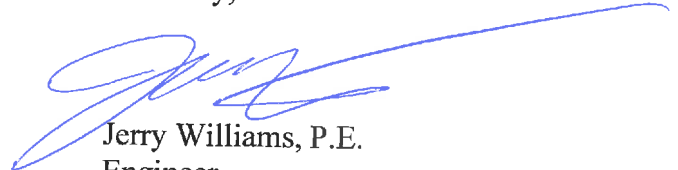
In accordance with 45CSR22 - Air Quality Management Fee Program, the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first obtaining and having in current effect a Certificate to Operate (CTO). Such Certificate to Operate (CTO) shall be renewed annually, shall be maintained on the premises for which the Certificate has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality

Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia.  
West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499,  
extension 1223.

Sincerely,



Jerry Williams, P.E.  
Engineer

Enclosure

c: Alex Bosiljevac ([abosiljevac@eqt.com](mailto:abosiljevac@eqt.com))

*West Virginia Department of Environmental Protection  
Division of Air Quality*

*Jim Justice  
Governor*

*Austin Caperton  
Cabinet Secretary*

**Class II General Permit  
G35-D Registration to Modify**



for the  
Prevention and Control of Air Pollution in regard to the  
Construction, Modification, Relocation, Administrative Update and  
Operation of Oil and Natural Gas Compressor and/or Dehydration Facilities

*The permittee identified at the facility listed below is authorized to  
construct the stationary sources of air pollutants identified herein in accordance  
with all terms and conditions of General Permit G35-D.*

**G35-D123**

**Issued to:**

**EQT Production Company, LLC  
BIG 57-176 Meter Site  
103-00052**

A handwritten signature in blue ink, appearing to read "William F. Durham", is written over a horizontal line.

*William F. Durham  
Director*

*Issued: May 23, 2017*

This Class II General Permit Registration will supercede and replace R13-2999A issued on January 19, 2016.

Facility Location: Smithfield, Wetzel County, West Virginia  
Mailing Address: 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222  
Physical Address: Shuman Hill Road, Smithfield.  
Facility Description: Dehydration  
NAICS Code: 211111  
SIC Code: 1311  
Longitude Coordinates: -80.54511  
Latitude Coordinates: 39.55320  
Directions to Facility: From the junction of WV SR20 (Galmish Road) and CR 15 (North Fork Road) in Pine Grove, travel east on CR 15 for approximately 11.8 miles (3.6 miles after the CR 15/CR 19 junction) to the CR 15 and CR 80 (Shuman Hill Road) junction. Turn right onto CR 80 and the facility is located immediately on the right.  
Registration Type: Modification  
Description of Change: Glycol dehydration unit replacement, installation of one (1) tank and update list of equipment at the facility.

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*The source is not subject to 45CSR30.*

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## Permit Section Applicability for the Registrant

*All registered facilities under General Permit G35-D are subject to Sections 1.0, 2.0, 3.0, and 4.0 of General Permit G35-D.*

The following additional sections of General Permit G35-D apply to the registrant:

GENERAL PERMIT G35-D APPLICABLE SECTIONS	
<input checked="" type="checkbox"/> Section 5.0	Storage Vessels Containing Condensate and/or Produced Water <sup>1</sup>
<input type="checkbox"/> Section 6.0	Storage Vessel Affected Facility (NSPS, Subpart OOOO/OOOOa)
<input checked="" type="checkbox"/> Section 7.0	Control Devices and Emission Reduction Devices not subject to NSPS Subpart OOOO and/or NESHAP Subpart HH
<input checked="" type="checkbox"/> Section 8.0	Small Heaters and Reboilers not subject to 40CFR60 Subpart Dc
<input type="checkbox"/> Section 9.0	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO/OOOOa)
<input type="checkbox"/> Section 10.0	Centrifugal Compressor Affected Facility (NSPS, Subpart OOOO/OOOOa) <sup>2</sup>
<input type="checkbox"/> Section 11.0	Reciprocating Compressor Affected Facility (NSPS, Subpart OOOO/OOOOa) <sup>2</sup>
<input type="checkbox"/> Section 12.0	Reciprocating Internal Combustion Engines, Generator Engines, Microturbine Generators
<input checked="" type="checkbox"/> Section 13.0	Tanker Truck Loading <sup>3</sup>
<input checked="" type="checkbox"/> Section 14.0	Glycol Dehydration Units <sup>4</sup>
<input checked="" type="checkbox"/> Section 15.0	Blowdown and Pigging Operations
<input checked="" type="checkbox"/> Section 16.0	Fugitive Emission Components (NSPS, Subpart OOOOa)

- 1 Registrants that are subject to Section 5 may also be subject to Section 6 if the applicant is subject to the NSPS, Subpart OOOO/OOOOa control requirements or the applicable control device requirements of Section 7.*
- 2 Registrants that are subject to Section 10 and 11 are also subject to the applicable RICE requirements of Section 12.*
- 3 Registrants that are subject to Section 13 may also be subject to control device and emission reduction device requirements of Section 7.*
- 4 Registrants that are subject to Section 14 are also subject to the requirements of Section 8 (reboilers). Registrants that are subject to Section 14 may also be subject to control device and emission reduction device requirements of Section 7.*

STORAGE VESSELS										
Emission Unit ID#	Emission Point ID#	Content	Maximum Volume (gal)	Annual Throughput Limit (gal/yr)	Control Device ID#	Manuf. Date	Year Installed/Modified	VRU	Subject to 40CFR60 Subpart OOOO/OOOOa? <sup>1</sup>	G35-D Applicable Sections
S003	E003	Dehydration Drip Tank	100 bbl	100,800	None	After 2011	2017	No	<input type="checkbox"/> OOOO <input type="checkbox"/> OOOOa <input checked="" type="checkbox"/> No	5.0
S004	E004	TEG Tank	500 gal	NA	None	2012	2012	No	<input type="checkbox"/> OOOO <input type="checkbox"/> OOOOa <input checked="" type="checkbox"/> No	NA

<sup>1</sup> Commenced construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015 for 40CFR60 Subpart OOOO.

Commenced construction, modification or reconstruction after September 18, 2015 for 40CFR60 Subpart OOOOa.

FUEL BURNING UNITS					
See Section 8.0					
Emission Unit ID#	Emission Point ID#	Description	MDHI (MMBTU/hr)	Year Installed/Modified	G35-D Applicable Sections
S002	E002	Dehydration Unit Reboiler	0.75	2017	8.0

PNEUMATIC CONTROLLERS
<p>Are there any applicable pneumatic controllers subject to 40CFR60 Subpart OOOO/OOOOa at this facility?</p> <p> <input type="checkbox"/> 40CFR60 Subpart OOOO  <input type="checkbox"/> 40CFR60 Subpart OOOOa  <input checked="" type="checkbox"/> No           </p>

### TANKER TRUCK LOADOUT

**Are there any tanker truck loadout operations at this facility?**

☒ Yes    ☐ No

See Section 13.0

Emission Unit ID#	Emission Point ID#	Description	Annual Throughput Limit (gal/yr)	Year Installed/Modified	Control Device ID#	Closed System Collection?
L001	L001	Liquid Loading	100,800	2012	None	<input type="checkbox"/> Tanker trucks passing the MACT level annual leak test <input type="checkbox"/> Tanker trucks passing the NSPS level annual leak test <input type="checkbox"/> Tanker trucks not passing one of the above annual leak tests but has vapor return

## GLYCOL DEHYDRATION UNITS

Are there any glycol dehydration units at this facility?

☒ Yes ☐ No

See Section 14.0

Emission Unit ID#	Emission Point ID#	Description	Year Installed/Modified	Subject to 40CFR63 Subpart HH? <sup>1</sup>	40CFR63 Subpart HH Exemptions	Max Dry Gas Flow Rate (mmscf/day)	APCD/ERD ID#
S001	C001	Glycol Dehydration Unit	2017	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Pump Optimization <input type="checkbox"/> No	<input checked="" type="checkbox"/> Benzene Exemption <input type="checkbox"/> Flowrate Exemption	100	C001

<sup>1</sup> If Yes, specify if registrant meets benzene or flowrate exemption.



### BLOWDOWN AND PIGGING OPERATIONS

See Section 15.0

Miscellaneous Gas Venting associated with glycol dehydration unit. VOC emissions of 0.08 tons/year.

### FUGITIVE EMISSION COMPONENTS

Is the facility subject to quarterly LDAR monitoring under 40CFR60 Subpart OOOOa?

☒ Yes  
☐ No

See Section 16.0

### AIR POLLUTION CONTROL DEVICES

Are there any air pollution control devices at this facility?

☒ Yes ☐ No

See Sections 6.0, 7.0

Control Device ID#	Control Efficiency (%)	Control Device Description	Year Installed/ Modified	Max Design Capacity (state units)	Subject to:
C001	95	Enclosed Combustor	2017	11.66 MMBTU/hr	<input type="checkbox"/> Section 6.0 <input checked="" type="checkbox"/> Section 7.0

### EMISSION REDUCTION DEVICES (ERD)

Are there any ERDs (VRU, Recycled Reboiler, BTEX Eliminator, etc.) at this facility?

☐ Yes ☒ No

See Section 7.0

EMISSION LIMITATIONS					
Emission Unit ID#	Emission Point ID#	Emission Unit Description	Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tons/year)
S001/C001	C001	Glycol Dehy Still Vent/ Enclosed Combustor	VOCs	1.06	4.66
			Benzene	0.01	0.06
			Toluene	0.10	0.45
			Ethylbenzene	0.02	0.07
			Xylenes	0.07	0.28
S003	E003	Dehy Drip Tank	VOCs	0.01	0.03
			Total HAPs	<0.01	0.01
L001	L001	Tanker Truck Loading	VOCs	<0.01	<0.01
			Total HAPs	<0.01	<0.01